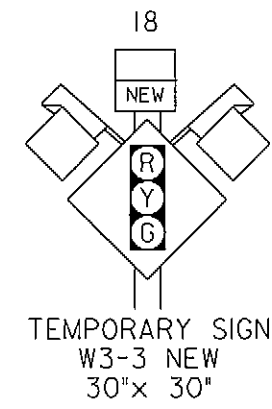
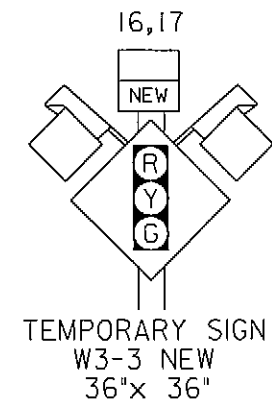
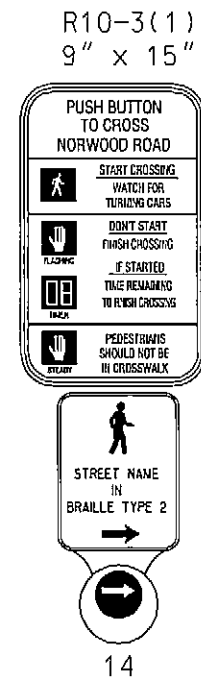
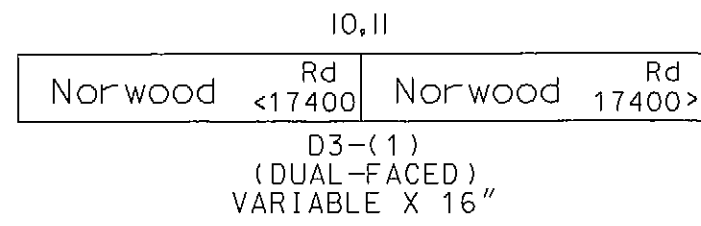
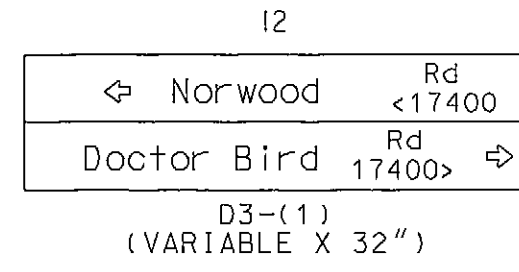
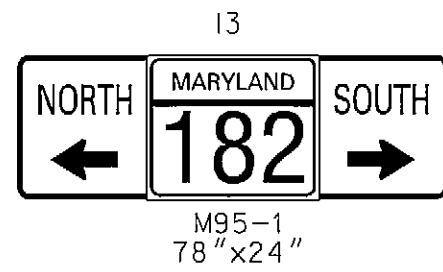
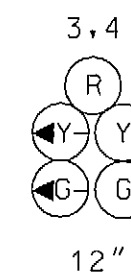
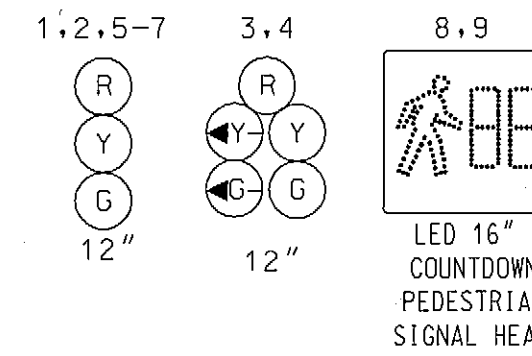


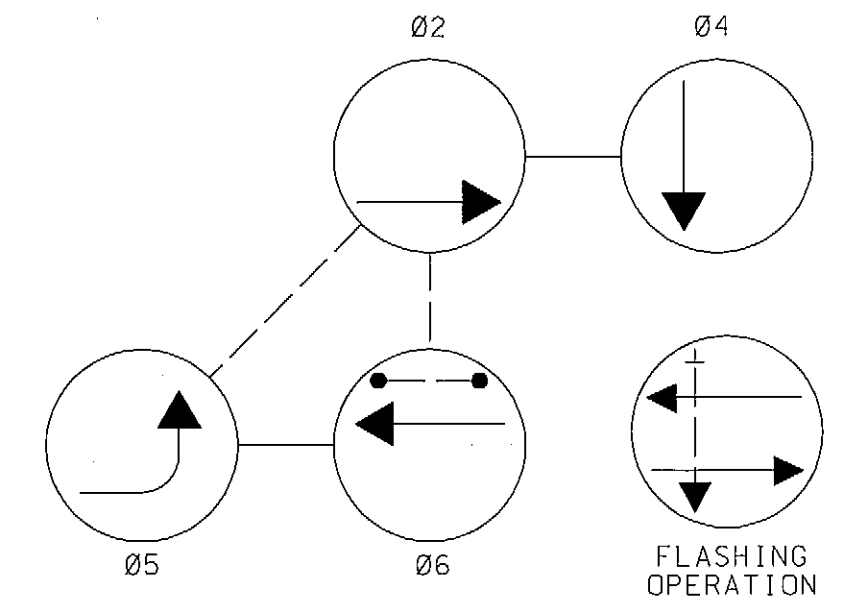
## PROPOSED SIGNS



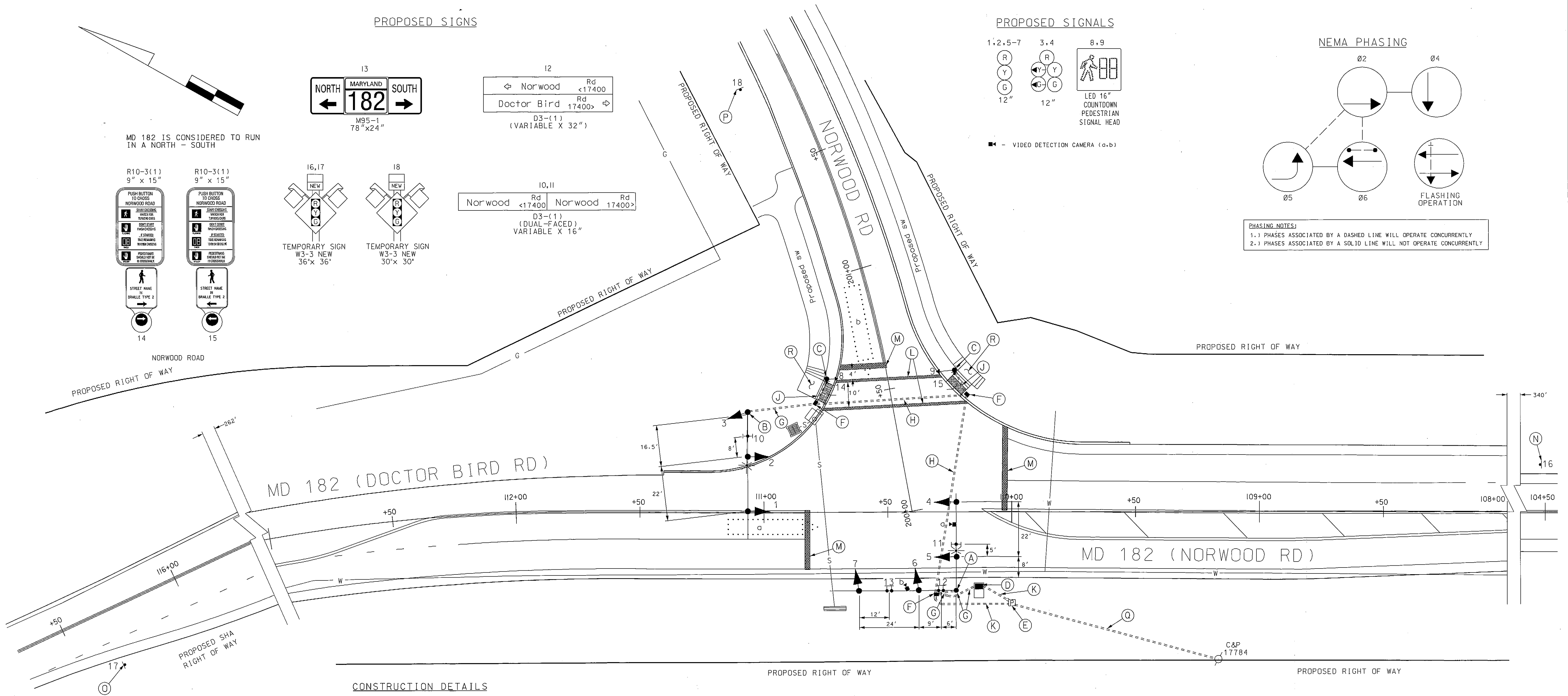
## PROPOSED SIGNALS



## NEMA PHASING



PHASING NOTES:  
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY  
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



## CONSTRUCTION DETAILS

- Install 27' steel pole with twin 50'/50' mast arms (cut to 38'), traffic signal heads, signs, video detection camera, 250 watt HPS lamp with luminare on 20' lighting arm and pole mounted shield assembly. (Note: 1-4" 90° polyvinyl chloride (Schedule 80) bend.) (Sta. 110+23, LT 31')
- Install 27' steel pole with single 50' mast arm traffic signal heads, signs, video detection camera, 250 watt HPS lamp with luminare on 20' lighting arm and pole mounted shield assembly. (Note: 1-4" 90° polyvinyl chloride (Schedule 80) bend.) (Sta. 111+07, RT 40')
- Install 10' (18" breakaway coupling foundation STD No. 801.01-01) pedestal pole with countdown pedestrian signal head and APS pushbutton with pedestrian education sign as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.) (Sta. 110+23, 57' RT, 110+74.5, 53.5' RT)
- Install NEMA size "6" base-mounted cabinet and controller with all necessary equipment as shown. (Sta. 110+13, 30' LT)
- Install metered service pedestal for underground electrical utility service.
- Install handhole.
- Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).
- Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk)
- Install 24" white heat applied preformed thermoplastic pavement marking. (Stopline)
- Install ground mounted sign on one 4"x6" wood post 550' from Stopline. (Sta. 104+52, 19' RT)
- Install ground mounted sign on one 4"x6" wood post 550' from Stopline. (Sta. 116+33, 23.5' LT)
- Install ground mounted sign on one 4"x6" wood post 250' from Stopline.
- Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched) with 50' of 3 wire 1 conductor (No. 250 KCMIL) for proposed underground electrical power service by PEPCO to base of utility pole.
- Proposed handicap ramps are detailed on the roadway plans.

## GENERAL NOTES:

- All underground utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying "MISS UTILITY" prior to construction so that all utilities may be located in the field. If the contractor perceives that a conflict between the utilities and the traffic signal will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.
- All Traffic Signal Foundations shall be installed at the Final Sidewalk or Curb grade for closed sections. Highest Roadway Profile Grade for open sections, to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, and MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
- All pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All crosswalks shall be centered on handicap ramps or median cut throughs.

GEOMETRIC LEGEND	
PROPOSED	---
EXISTING	---
LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES	
AERIAL CABLE	---
ELECTRIC	---
TELEPHONE	---
GAS	---
SEWER	---
WATER	---
CABLE TV	---



APPROVALS	
TEAM LEADER	1/14/2010
ASST. DIV. CHIEF	1/14/10
DIVISION CHIEF	1/15/10
OFFICE DIRECTOR	

REVISIONS	

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION	
MD 182 (NORWOOD RD) / MD 182 (DOCTOR BIRD RD) AND NORWOOD RD OLNEY, MARYLAND	
TRAFFIC SIGNAL PLAN	
SCALE 1"= 20'	DATE 1-13-2010 CONTRACT NO. M05625176
DESIGNED BY J.W.A.	COUNTY MONTGOMERY
DRAWN BY R.C.	LOGMILE 15018205.90
CHECKED BY	TIMS NO. 1567
F.A.P. NO.	TOD NO.
TS NO. 4706	DRAWING NO. 1 OF 5 SHEET NO. OF